# SPST SUBMINIATURE POWER RELAY

## **FEATURES**

- Small footprint
- · Low seated height
- Low cost
- Epoxy sealed version available
- 12 Amp switching
- UL, CUR file E44211



#### **CONTACTS**

Arrangement	SPST (1 Form A)			
Ratings	Resistive load:			
	Max. switched power: 300 W or 2770 VA Max. switched current: 13.5 A Max. switched voltage: 150 VDC* or 400 VAC			
	* Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.			
Rated Load UL, CUR	13.5 A at 125 VAC 12 A at 125 VAC, general use, 100k cycles 10 A at 277 VAC / 30 VDC, 100k cycles TV–5 1/ <sub>4</sub> HP at 125 VAC / 250 VAC			
Material	Silver tin oxide			
Resistance	< 50 milliohms initially			

### COIL

Power			
At Pickup Voltage (typical)	253 mW		
Max. Continuous Dissipation	1.3 W at 20°C (68°F) ambient		
Temperature Rise	39°C (70°F) at nominal coil voltage		
Temperature	Max. 130°C (266°F)		

#### **NOTES**

- 1. All values at 20°C (68°F).
- 2. Relay may pull in with less than "Must Operate" value.
- 3. Specifications subject to change without notice.

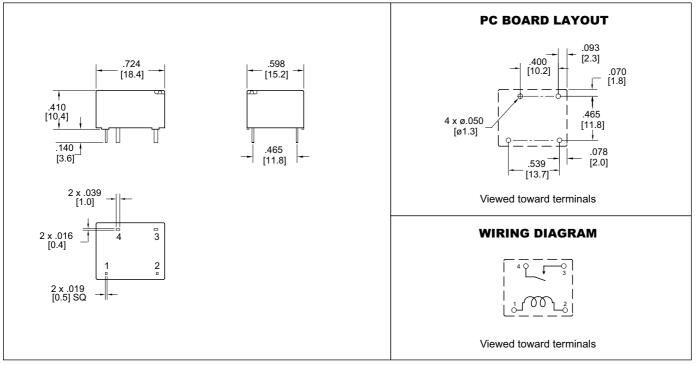
# **GENERAL DATA**

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 12 A 125 VAC Res.		
Operate Time (typical)	8 ms at nominal coil voltage		
Release Time (typical)	5 ms at nominal coil voltage (with no coil suppression)		
Dielectric Strength (at sea level for 1 min.)	2500 Vrms coil to contact 1000 Vrms between open contacts		
Insulation Resistance	1000 megohms min. at 20°C 500 VDC 50% RH		
Dropout	Greater than 5% of nominal coil voltage		
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 85°C (188°F) -40°C (-40°F) to 105°C (221°F)		
Vibration	0.040" (1.0 mm) DA at 10-50 Hz		
Shock	10 g operating, 100 g damage		
Enclosure	P.B.T. polyester		
Terminals	Tinned copper alloy, P.C.		
Max. Solder Temp.	270°C (518°F)		
Max. Solder Time	5 seconds		
Max. Solvent Temp.	80°C (176°F)		
Max. Immersion Time	30 seconds		
Weight	6 grams		
Packing unit in pcs	50 per plastic tube / 1500 per carton box		

## **RELAY ORDERING DATA**

COIL SPECIFICATIONS			ORDER NUMBER		
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	Unsealed	Sealed
3	2.25	5.0	20	AZ766-1A-3D	AZ766-1A-3DE
5	3.75	8.4	55	AZ766-1A-5D	AZ766-1A-5DE
6	4.5	10.2	80	AZ766-1A-6D	AZ766-1A-6DE
9	6.75	15.3	180	AZ766-1A-9D	AZ766-1A-9DE
12	9.0	20.4	320	AZ766-1A-12D	AZ766-1A-12DE
18	13.5	30.6	720	AZ766-1A-18D	AZ766-1A-18DE
24	18.0	40.8	1,280	AZ766-1A-24D	AZ766-1A-24DE

# MECHANICAL DATA



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Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm .010$ "